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Claims

We claim:

- 1. An immunological test kit comprising a Borellia burgdorferi epitope polypeptide with an amino acid sequence 5 selected from the group consisting of: VQEGVQQEGAQQP-(beta-A) (beta-4)C; EIAAKAIGKKHQNNG-(beta-A) (beta-A)C; ISTLIKQKLDGLKNE-(beta-A) (beta-A)C; PWAESPKKPE-(beta-A) (beta-A)C; DKKAINLDKAQQKLD-(beta-A) (beta-A)C; ITKGKSQKSLGD-(beta-A) (beta-A)C; and GMTFRAQEGAFLTG-(beta-A) (beta-A)C.
- 10 2. The kit of claim 1, wherein said epitope polypeptide comprises VQEGVQQEGAQQP-(beta-A)(beta-,4)C.
 - 3. The kit of claim 2, wherein said epitope polypeptide consists essentially of VQEGVQQEGAQQP-(beta-A)(beta-,4)C.
 - 4. The kit of claim 1, wherein said epitope polypeptide
- 15 comprises EIAAKAIGKKIHQNNG-(beta-A)(beta-A)C.
 - 5. The kit of claim 4, wherein said epitope polypeptide consists essentially of EIAAKAIGKKIHQNNG-(beta-A)(beta-A)C.
 - The kit of claim 1, wherein said epitope polypeptide comprises ISTLIKQKLDGLKNE-(beta-A)(beta-A)C.
- 20 7. The kit of claim 6, wherein said epitope polypeptide consists essentially of ISTLIKOKLDGLKNE-(beta-A) (beta-A)C.
 - 8. The kit of claim 1, wherein said epitope polypeptide comprises PWAESPKKPE-(beta-A)(beta-A)C.
 - . The kit of claim 8, wherein said epitope polypeptide
- 25 consists essentially of PWAESPKKPE-(beta-A) (beta-A)C.
 - The kit of claim 1, wherein said epitope polypeptide comprises DKKAINLDKAQQKLD-(beta-A)(beta-A)C.
 - 11. The kit of claim 10, wherein said epitope polypeptide consists essentially of DKKAINLDKAQQKLD-(beta-A)(beta-A)C.
- 30 12. The kit of claim 1, wherein said epitope polypeptide comprises ITKGKSQKSLGD-(beta-A) (beta-A) C.
 - 13. The kit of claim 12, wherein said epitope polypeptide consists essentially of ITKGKSQKSLGD-(beta-A)(beta-A)C.
 - 14. The kit of claim 1, wherein said epitope polypeptide
- 35 comprises GMTFRAQEGAFLTG-(beta-A)(beta-A)C.

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- 15. The kit of claim 14, wherein said epitope polypeptide consists essentially of GMTFRAOEGAFLTG-(beta-A)(beta-A)C.
- 16. An apparatus for isolating antibody, said apparatus

 5 comprising a Borellia burgdorferi epitope polypeptide with an amino acid sequence selected from the group consisting of:

 VQEGVQQEGAQQP-(beta-A)(beta-,4)C; EIAAKAIGKKIHQNNG-(beta-A)(beta-A)C; ISTLIKQKLDGLKNE-(beta-A)(beta-A)C; PWAESPKKEE-(beta-A)(beta-A)(beta-A)C;
- 10 ITKGKSQKSLGD-(beta-A)(beta-A)C; and GMTFRAQEGAFLTG-(beta-A)(beta-A)C.
 - 17. The apparatus of claim 16, wherein said epitope polypeptide comprises VQEGVQQEGAQQP-(beta-A)(beta-,4)C.
 - 18. The apparatus of claim 17, wherein said epitope polypeptide consists essentially of VQEGVQQEGAQQP-(beta-A)(beta-.4)C.
 - 19. The apparatus of claim 16, wherein said epitope polypeptide comprises EIAAKAIGKKIHQNNG-(beta-A)(beta-A)C.
- 20. The apparatus of claim 19, wherein said epitope 20 polypeptide consists essentially of EIAAKAIGKKIHQNNG-(beta-A)(beta-A)C.
 - The apparatus of claim 16, wherein said epitope polypeptide comprises ISTLIKOKLDGLKNE-(beta-A)(beta-A)C.
 - 22. The apparatus of claim 21, wherein said epitope polypeptide consists essentially of ISTLIKOKLDGLKNE-(beta-
 - A)(beta-A)C.

 23. The apparatus of claim 16, wherein said epitope polypeptide comprises PWAESPKKPE-(beta-A)(beta-A)C.
 - 24. The apparatus of claim 23, wherein said epitope
- 30 polypeptide consists essentially of PWAESPKKPE-(beta-A)(beta-A)C.
 - 25. The apparatus of claim 16, wherein said epitope polypeptide comprises DKKAINLDKAQQKLD-(beta-A)C.
- 26. The apparatus of claim 25, wherein said epitope 35 polypeptide consists essentially of DKKAINLDKAQQKLD-(beta-A)(beta-A)C.

- 27. The apparatus of claim 16, wherein said epitope polypeptide comprises ITKGKSQKSLGD-(beta-A)(beta-A)C.
- 28. The apparatus of claim 27, wherein said epitope polypeptide consists essentially of ITKGKSQKSLGD-(beta-A)(beta-
- 5 A)C.
 - 29. The apparatus of claim 28, wherein said epitope polypeptide comprises GMTFRAQEGAFLTG-(beta-A)(beta-A)C.
 - 30. The apparatus of claim 29, wherein said epitope polypeptide consists essentially of GMTFRAQEGAFLTG-(beta-
- 10 A) (beta-A) C.